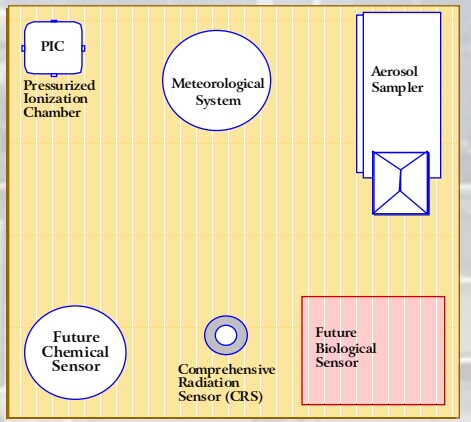
# Homeland Security Monitoring Platform

The Homeland Security Monitoring Platform supports a suite of instruments to provide vital information in the event of a terrorist attack. This platform is the first node in an envisioned network of sensors throughout New York City and the U.S. This network would be part of the Department's response system that would guide the nation's response to a nuclear or radiological attack by providing real-time information to federal, state, and local officials on the location, movement, and level of radioactive contamination. Each platform could accommodate sensors for chemical and biological agents.

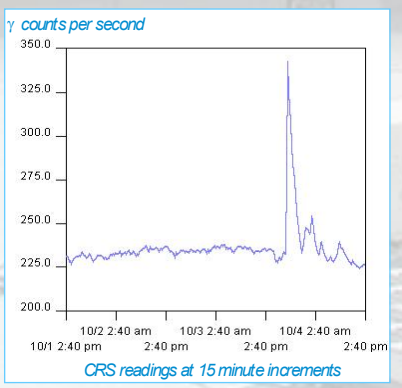
## Platform Purpose

- Serve as an operational test bed for newly-developed radiation sensor systems that can be used for search and characterization by local first responders
- Provide real-time information on radiation for exposure estimates
- Provide aerosol samples for attribution and characterization
- Provide a platform for future chem-bio sensors
- Data can be viewed at *http://www.eml.doe.gov/homeland/location.cfm*




## Communications

Real-time exposure rates and current radiation levels measured by the instruments on EML's monitoring platform are displayed on EML's website. In an expanded monitoring network, data would be collected from each site and transmitted to data centers. This information, interfaced with meteorological models, would provide decision makers with a map of safe and unsafe radiological areas.



CRS readings at 15 minute increments


## Platform Specifics

The sensors reside on an 8ft x 10ft lightweight, modular aluminum platform. The equipment consists of :

- Comprehensive Radiation Sensor (CRS)
- Pressurized Ionization Chamber (PIC)
- Surface Air Sampler (SAS)
- Thermoluminescent Dosimeters (TLDs)
- Meteorological System